

IN THE CLAIMS

Please cancel claims 1-20.

Please add the following new claims 21-35.

A complete listing of all claims in this application is set forth below.

Claims 1-20 (canceled).

21. (new) An assembly, comprising:

a resected natural humerus;

a natural acromion;

a glenoid surface; and

a humeral prosthesis having (i) a prosthetic stem component secured within said resected natural humerus, and (ii) a prosthetic head component including a glenoid-bearing portion and an acromion-bearing portion,

wherein, during abduction of said resected natural humerus, (i) said acromion-bearing portion contacts and bears directly against said natural acromion, and (ii) said glenoid-bearing portion contacts and bears directly against said glenoid surface.

22. (new) The assembly of claim 21, wherein:
said resected natural humerus includes a medullary canal, and
said prosthetic stem component is secured within said medullary canal.
23. (new) The assembly of claim 21, wherein
said glenoid-bearing portion and said acromion-bearing portion define an
outer bearing surface, and
said outer bearing surface extends in a medial/lateral direction across a
radial distance D, and (iii) $D > 190^\circ$.
24. (new) The assembly of claim 21, wherein
said glenoid-bearing portion and said acromion-bearing portion define an
outer bearing surface, and
said outer bearing surface extends in a medial/lateral direction across a
radial distance D, and (iii) $D > 200^\circ$.
25. (new) The assembly of claim 24, wherein D is about 220° .
26. (new) The assembly of claim 21, wherein said glenoid surface is a
natural glenoid surface.

27. (new) The assembly of claim 21, wherein said glenoid surface is a prosthetic glenoid surface.

28. (new) The assembly of claim 21, wherein said acromion-bearing portion contacts and bears directly against an inferior surface of said natural acromion during abduction of said resected natural humerus.

29. (new) An assembly, comprising:

- a resected natural humerus;
- a natural acromion;
- a glenoid surface; and
- a humeral prosthesis having (i) a prosthetic stem component secured within said resected natural humerus, and (ii) a prosthetic head component including a glenoid-bearing portion and an acromion-bearing portion,

wherein, during abduction of said resected natural humerus, (i) said acromion-bearing portion contacts and bears directly against at least a part of said natural acromion, and (ii) said glenoid-bearing portion contacts and bears directly against at least a part of said glenoid surface,

wherein said glenoid-bearing portion and said acromion-bearing portion define an outer bearing surface, and

wherein said outer bearing surface extends in a medial/lateral direction across a radial distance D , and (iii) $D > 190^\circ$.

30. (new) The assembly of claim 29, wherein:
said resected natural humerus includes a medullary canal, and
said prosthetic stem component is secured within said medullary canal.
31. (new) The assembly of claim 29, wherein $D > 200^\circ$.
32. (new) The assembly of claim 31, wherein D is about 220° .
33. (new) The assembly of claim 29, wherein said glenoid surface is a natural glenoid surface.
34. (new) The assembly of claim 29, wherein said glenoid surface is a prosthetic glenoid surface.
35. (new) The assembly of claim 29, wherein said acromion-bearing portion contacts and bears directly against an inferior surface of said natural acromion during abduction of said resected natural humerus.